

Department of Energy Washington, D.C. 20545

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VADK R. R. Monroe, USE Director, Defense Enclear Agancy Washington, D.C. 20305

## Dear Admiral Monroe:

During the orientation visit to Enswetck Atoll by the Department of Energy Enswetck Advisory Group, a listing of issues and problem areas was presented during the Joint Task Force briefing. Prior to their departure from the Atoll, the group provided a preliminary draft of their initial views on these questions to Col. Bauchspies.

Upon their return from Enswetck Atoll, comments on the draft and suggestions representing the views of most of the members of the Advisory Group have been obtained. A revised copy of the group's comments and recommendations is enclosed. We endorse this advice and recommend it for your consideration.

The Tank Group met again on October 3-4, 1978. Any results relevant to knewstak cleams from that meeting will be provided to you when the group's report has been received and reviewed.

Regarding a response to the DMA request for a review of the draft report, "Dose Estimate for Post-Cleanup Use of Enewetak Atoll," by E. T. Bramlitt, comments by several members of the Enewetak Advisory Group have been forwarded to us. We are awaiting comments from staff of the Lawrence Livermore Laboratory, the laboratory performing such dose estimates for DOE.

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Please accept our thanks for the courtesies extended to the Advisory Group in their visit to Enswetak, which by all reports was highly successful.

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W. BAIR, NLY WACHHOLD, DOE R. RAY, NV The Marshall Islands Advisory Group provide the following comments and recommendations to issues and questions raised by DEA and DOE during the Advisory Group's visit to Enewetak in August 1978.

- 1. Acoust Crypt The 40-80-160 pCi/g guidence was not intended to apply to special or unique situation such as the Acoust Crypt. Information about the contents of the crypt is inadequate for the Advisory Group to offer any useful guidence. It might have been better to have left the crypt undisturbed. However, since the decision has been made to remove the buried opatamizated material, it is probably better for Col. Bauchspies to deal with the problem than to seek advice from other less-informed sources.
- 2. Preciseness of 40-80-160 The 40-80-160 guidance can and should be met by DNA. However, DOE should be "reasonable" in its evaluation of the cleanup relative to certification since both soil rumoval and measurement-methods are subject to errors of at least a few percent.
- 3. Serface Hot Spots Minimum Area Lavels The opinion of the Advisory Group is that the minimum area requiring cleanup is that caused by an IMP reading (90% of a 25 meter square area) that exceeds the 40-80-160 guidance. However, if removal of a "hot spot" brings-the. IMP reading down to the appropriate limit, then it should not be necessary to remove soil from the whole 25 meter square area.
- 4. Plowing Advisability The Advisory Group is awaiting the results of the plowing experiment before considering any guidance regarding plowing.
- 5. Island Average vs Maximum Yalues Resedial action is based upon maximum contamination levels. Radiological case assessment and decisions reparding repopulation should be based on average values for larger environmental units such as an entire island or group of islands.
- 6. Conteminated Bunker Guidance Pracise adherence to the AMSI standard is not appropriate to the bunker situation. Since strenuous efforts have been made to remove loose contemination and because of its location and quantity the fixed contemination does not appear to represent a health hazard. The preservation of a bunker as a storm refuge for island residents is a worthchile alternative to disposition of these structures. Although of no apparent benefit to subsequent residents, the off-shore Kickapoo tower anchor blocks do not appear to be a recilation bezard and need not be recoved.
- 7. Subsurface Contamination Subsurface contamination is defined as redioactivity more than about 2 cm under the ground surface, or at a depth not detectable by the DP. The Advisory Group is not yet prepared to offer guidance. In fact some members of the Advisory Group do not believe we should recommend criteria for subsurface contamination because of the uncertainty of the extent of subsurface contamination on the atoll. Subsurface contamination in small "bot spots" is apt to

"averaging." Examples are mixing of the "hot spot" with soil containing lower concentrations (as would occur in farming operations), dilution as the "hot spot" becomes distributed throughout an ecosystem, and redistribution of the "hot spot" by wind erosion or solubility in water. Therefore it is entirely appropriate to incorporate averaging in the criteria. The Advisory Group believes this can be accomplished by averaging subsurface radioactivity throughout the total soil column above the "hot spot." The Advisory Group is opposed to recommending criteria that would require a complex sampling scheme, an inordinate compliance effort, or that would lead to removal of far more soil than is necessary to accomplish the desired reduction of the potential radiation dose to inhabitants. The Advisory Group will give further consideration to this question at its next meeting.

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